


METHOD OF PRODUCTION OF NON-STEAM-AND-PRESSURE CURED CONCRETE AND COMPOSITION OF MIXTURE OF SUCH CONCRETE

Publication number: RU2243189 (C1) **Also published as:**
Publication date: 2004-12-27  **RU2003124027 (A)**
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Applicant(s):
Classification:
- **international:** C04B38/02; C04B38/02; (IPC1-7): C04B38/02
- **European:**
Application number: RU20030124027 20030730
Priority number(s): RU20030124027 20030730

Abstract of RU 2243189 (C1)

FIELD: manufacture of building materials; production of air-entrained (cellular) concrete; manufacture of wall members. ^ SUBSTANCE: proposed method includes proportioning of cement, silica component, gas-forming agent, additives and water followed by stirring the mix simultaneously with hydromechanical activation; additives are proportioned additionally; duration of activation is 5 to 10 minutes; gas-forming agent is introduced in 2-3 minutes before its completion. Mixture for production of non-steam-and-pressure cured aerated concrete containing cement, silica component in form of ash from thermoelectric station or fine sand, building gypsum, gas-forming agent, plasticizer and water; gas-forming agent is aluminum powder or paste; activating additive is soda sulfite waste of alumina production process or another product containing sodium sulfate at the following relationship of components, mass-%: cement, 48-52; silica component, 10-14; water, 35-37.5; gas-forming agent, 0.04-0.06; building gypsum, 1.2-1.4; activating additive, 1.2-1.4; plasticizer, 0.25-0.35. ^ EFFECT: fast hardening of mixture; enhanced strength and density of concrete. ^ 3 cl, 1 tbl

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